

I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) An image processing system for processing video content in a sequence of video frames and linking a pixel object embedded in said video content to data corresponding to the pixel object, the image processing system comprising:

a video capture system for capturing a frame of said sequence of video frames;

a user interface for enabling a user to select the pixel object in said captured frame;

a video linking system which generates a linked video file that is separate from and not embedded in said sequence of video frames content, said linked video file comprising (i) a pixel object file identifying the selected pixel object by frame number and location within the captured video frame and at least one subsequent video frame, and (ii) a separate data object file that includes information related to the object that corresponds to the selected pixel object, the data object file being linked to the corresponding pixel object file, wherein said linked video file is configured to be exportable to a media player so

that a location in said sequence of video frames selected by a pointing device during playback of the video frames can be linked with the data object when said selected location corresponds to the selected pixel object; and

wherein said video linking system samples said video content at a sample rate which is a divisor of plural standard playback rates.

2. (Previously Presented) The system as recited in claim 1, wherein said video linking system samples said video content at a sample rate of a divisor of 30 frames per second and 12 frames per second.

3. (Previously Presented) The system as recited in claim 2, wherein said sample rate is at least 3 frames per second.

4. (Original) The system as recited in claim 1, wherein said video linking system is configured to identify segment breaks in said video content.

5. (Original). The system as recited in claim 4, wherein said segment breaks are determined by determining the median average pixel values for a series of frames and comparing

changes in the pixel values relative to the median average and indicating a segment break when the change in pixel values represents at least a predetermined change relative to the median average.

Claims 6-10. (Cancelled)

11. (Previously Presented) The image processing system as recited in claim 1, further including a video playback application for playing back video content and said linked video file, wherein said video playback application is configured to (i) determine if locations selected by a pointing device during playback of the video content correspond to said selected pixel object and (ii) provide a link to a corresponding data object when said selected location corresponds to one of said selected pixel object.

Claim 12. (Cancelled)

13. (Previously Presented) The system as recited in claim 1, wherein said video linking system samples said video content at a sample rate of a divisor of NTSC and PAL frame rates.

14. (Previously Presented) The system as recited in claim 1, wherein said video linking system samples said video content at a sample rate of a divisor of NTSC and 12 FPS frame rates.

15. (Previously Presented) The system as recited in claim 1, wherein said video linking system samples said video content at a sample rate of a divisor of NTSC, PAL, 15 FPS, and 12 FPS frame rates.

16. (Previously Presented) The system as recited in claim 1, wherein said video linking system samples said video content at a sample rate of a divisor of NTSC and movie frame rates.

17. (Previously Presented) The system as recited in claim 1, wherein said video linking system clusters the sampled video content with plural frames per cluster.

18. (Previously Presented) The system as recited in claim 1, further comprising a pixel object tracking system which includes a processor which automatically tracks the selected pixel object in other frames, said pixel object tracking system including a system for automatically determining changes in the

characteristics of said pixel object based upon changes in lighting and automatically compensating based upon those changes.

19. (Currently Amended) An image processing system for processing video content in a sequence of video frames and linking a pixel object embedded in said video content to data corresponding to the pixel object, the image processing system comprising:

a video capture system for capturing a sequence of video frames;

a user interface for enabling a user to select a pixel object in at least one of the captured frames;

a video linking system which generates a linked video file that is separate from and not embedded in said sequence of video frames ~~content~~, said linked video file comprising (i) a pixel object file which identifies, by frame number and location within the frame, the selected pixel object in the captured frame and at least one subsequent frame, and (ii) a separate data object file which includes data that corresponds to the selected pixel object, said linked video file being configured to be exportable to a media player, said video linking system sampling said video content at a sample rate which is a divisor of plural standard playback rates.

20. (Previously Presented) The system as recited in claim 19, wherein said video linking system samples said video content at a sample rate of a divisor of 30 frames per second and 12 frames per second.

21. (Previously Presented) The system as recited in claim 19, wherein said sample rate is at least 3 frames per second.

22. (Previously Presented) The image processing system as recited in claim 19, further including a video playback application for playing back video content and said linked video file, wherein said video playback application is configured to (i) determine if a location selected by a pointing device during playback of the video content corresponds to the selected pixel object and (ii) provide a link to a data object in the data object file when said selected location corresponds to the selected pixel object.

23. (Previously Presented) The system as recited in claim 19, wherein said video linking system samples said video content at a sample rate of a divisor of NTSC and PAL frame rates.

24. (Previously Presented) The system as recited in claim 19, wherein said video linking system samples said video content at a sample rate of a divisor of NTSC and 12 FPS frame rates.

25. (Previously Presented) The system as recited in claim 19, wherein said video linking system samples said video content at a sample rate of a divisor of NTSC, PAL, 15 FPS, and 12 FPS frame rates.

26. (Previously Presented) The system as recited in claim 19, wherein said video linking system samples said video content at a sample rate of a divisor of NTSC and movie frame rates.

27. (Previously Presented) The system as recited in claim 19, wherein said video linking system clusters the sampled video content with plural frames per cluster.

28. (Previously Presented) The system as recited in claim 19, further comprising a pixel object tracking system which includes a processor which automatically tracks said selected pixel object in other frames, said pixel object

tracking system including a system for automatically determining changes in the characteristics of said selected pixel object based upon changes in lighting and automatically compensating based upon those changes.

29. (Currently Amended) An image processing system for processing video content in a sequence of video frames and linking a pixel object embedded in said video content to corresponding data, the image processing system comprising:

- a video capture system for capturing a sequence of video frames;

- a user interface for enabling a user to select a pixel object in at least one of the captured frames;

- a video linking system which generates a linked video file that is separate from and not embedded in said sequence of video frames content, said linked video file comprising (i) a pixel object file which identifies, by frame number and location within the frame, the selected pixel object in the at least one captured frame and at least one subsequent frame, and (ii) a separate data object file, linked to the pixel object file, which includes data corresponding to the selected pixel object, said video linking system being configured to be exportable to a media player, said video linking system sampling said video content at a sample rate which is a divisor multiple of plural

standard playback rates, said video linking system clustering the sampled video content with plural frames per cluster.